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Corrected for refraction only. The log-factors for parallax are given, as the ephemeris in the Berlin *Jahrbuch* was not quite satisfactory.

Assumed *Mean* Places of Stars of Comparison, 1852·0.

Name.	R.A.	N.P.D.	Set.
	h m s	° ′ ″	
Bessel's Zone, 362	12 23 52·56	68 57 26·6	1
— — 362	29 24·87	56 56·6	2
Anonymous, 9th mag.	26 3·00	44 55·0	3
Bessel's Zone, 467	20 39·15	49 31·0	4
— — -	30 52·32	43 8·9	5
— — -	31 13·12	27 51·0	6, 7
— — -	24 44·42	15 43·3	8
B.A.C. 4260 (Edin. Obs.)	31 45·50	68 7 21·0	9
Lalande, 23596	29 48·00	67 59 7·0	10
Bessel's Zone, 467	27 23·99	38 1·8	11
Anonymous, 8th mag.	24 9·80	36 14·0	12
Bessel's Zone, 467	22 55·47	13 52·2	13
— — -	17 3·98	67 0 30·7	14
Anonymous, 9½ mag.	17 17·67	66 48 32·4	15
Bessel's Zone, 412	14 56·77	42 52·4	16
B.A.C. 4141	11 50·50	66 8 32·0	17, 18
Bessel's Zone, 412	4 13·84	65 51 8·1	19, 20
— — -	12 0 30·09	28 26·5	21, 22
— — 353	11 45 14·32	23 44·4	23, 24
— — -	11 32 42·72	65 34 55·6	25

Set. 1. *Egeria* fully 10th magnitude.
Sets 5, 23, 24. Sky foggy, and planet dim.
— 6, 7, 9, 14, 15, 16. Windy. Boisterous. The hearing-tube used.
— 8, 17, 25. Measures interrupted by cloud.
On other nights circumstances were favourable.

ENCKE'S COMET.

CAMBRIDGE, U.S. Great Equatoreal. (Prof. W. C. Bond.)

	Camb. M.T.	R.A. Comet—✳	No. of Obs.	Decl. Comet—✳	No. of Obs.	Star of Comp.
1852.	h m s	m s		′ ″		
Jan. 13	6 57 28·46	+0 8·85	17	−2 2·91	6	*a*
17	7 2 16·71	+0 15·08	16	−3 32·96	10	*b*
19	7 24 35·76	−0 21·22	9	+3 32·53	6	*c*
20	6 54 5·46	−0 6·73	10	+3 35·38	6	*d*
23	7 20 35·57	−1 5·42	8	−3 38·27	5	*e*
Feb. 2	6 58 23·46	+0 35·04	12	+3 6·80	10	*f*
14	7 35 38·39	+1 34·51	8	+2 50·03	6	*g*

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Stars of Comparison referred to the Mean Equinox of Jan. 1, 1852.

Star.	R.A.	Decl.	Mag.	Authority.
	h m s	° ′ ″		
a	23 6 29·23	+4 11 34·56	8	Weisse, xxiii, 111
b	11 18·36	36 3·28	8.9	compared with B.A.C. 8127
c	14 31·28	41 39·93	10	— — — —
d	15 34·75	4 47 57·40	...	— — — —
e	20 44·02	5 15 39·58	8	Weisse, xxiii, 413
f	34 24·43	6 25 54·91	6.7	— — 710
g	23 54 49·65	+8 7 57·25	9.10	— — 1132

Hence the following places of the comet are deduced.

1852.	Cambridge M..T.	R.A. Comet.	Decl. Comet.
	h m s	h m s	° ′ ″
Jan. 13	6 57 28·46	23 6 38·08	+4 9 31·65
17	7 2 16·71	11 33·44	32 30·32
19	7 24 35·76	14 10·06	45 12·45
20	6 54 5·46	15 28·02	4 51 32·78
23	7 20 35·57	19 38·60	5 12 1·31
Feb. 2	6 58 23·46	34 59·47	6 29 1·71
14	7 35 38·39	23 56 24·16	+8 10 47·28

LIVERPOOL. Equatoreal. (Mr. Hartnup.)

1852.	Green. M.T.	R.A.	N.P.D.	Star of Comp.
	h m s	h m s	° ′ ″	
Jan. 28	6 24 57·0	23 26 39·82	84 13 9·1	*a*
	6 39 56·2	40·98	9·4	-
Feb. 6	6 57 9·3	23 41 24·98	82 58 72·8	*b*
	7 25 8·8	27·73	48·6	-
10	6 54 20·8	23 48 32·09	82 24 74·9	*c*
	7 27 30·4	34·10	63·0	-
	7 42 30·2	35·30	52·4	-
19	6 58 4·1	0 5 32·77	81 12 40·3	*d*
	7 13 3·7	33·80	34·9	-
	7 28 3·9	35·02	33·5	-
	7 43 4·1	36·69	26·5	-
28	7 17 8·2	0 22 6·42	80 39 19·1	*e*
	7 39 8·7	8·18	23·7	-
Mar. 2	7 1 34·7	0 26 20·86	80 53 28·3	*f*
	7 13 34·6	21·63	31·7	-
	7 25 34·7	22·47	38·0	-
	7 37 35·1	22·71	40·4	-
7	7 3 42·6	0 29 9·44	82 21 48·0	*g*
	7 21 42·6	9·15	68·2	-
9	7 7 23·7	0 27 40·22	83 32 50·1	-
	7 27 24·5	39·24	80·0	-

The observations are corrected for refraction and parallax; the log distance for parallax was deduced from the ephemeris circulated by the Superintendent of the *Nautical Almanac*.

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The following are the assumed *Mean* Places of the Stars of Comparison for 1852·0.

		R.A.	N.P.D.	Authorities.
		h m s	° ′ ″	
a	B.A.C. 8233	23 32 20·40	85 10 30·91	Greenwich Observations, 1849
b	— 8331	23 51 42·82	83 57 20·93	— — 1850
c	— 8354	23 54 56·22	82 20 12·00	Edinburgh Observations.
d	— 66	0 12 59·06	82 37 55·25	Greenwich 12-year Catalogue.
e	— 137	0 26 30·83	80 30 42·92	Edinburgh Observations.
f	— —	0 20 41·13	80 37 15·16	Santini's Catalogue of 1677 Stars.—*Mem. R.A.S.* vol. xii.
g	— 222	0 41 0·40	83 13 15·81	Greenwich Observations.

The light of the comet appeared to me much less diffused than it was in 1848–9. On favourable occasions, the appearance of the comet, with a low power, resembled that of a nebulous star, and the nucleus admitted of very accurate bisection. This was more particularly the case on and after the 19th of February.

DURHAM. Fraunhofer Equatoreal. (Mr. R. C. Carrington.)

1852.	Green. M.T.	R.A.	Exc. of Ephem.	N.P.D.	Exc. of Ephem.	No. of Comps. in R.A.	No. of Comps. in N.P.D.	Set.
	h m s	h m s	s	° ′ ″	″			
Jan. 17	6 41 16·1	23 11 14·94	+ 0·63	85 28 9·0	+ 52·3	6	6	1
	7 32 11·5	17·95	0·31	10·6	37·9	6	6	2
Feb. 8	7 5 15·8	44 56·04	0·59	82 42 1·7	4·6	9	3	3
9	6 55 19·6	23 46 42·90	0·48	82 33 32·5	+ 1·4	24	8	4
18	7 3 31·9	0 3 37·45	1·45	81 19 43·5	— 17·1	18	6	5
19	7 21 34·8	5 34·46	2·07	81 12 33·6	24·4	10	5	6
21	7 16 27·8	9 25·78	2·49	80 59 37·9	36·0	24	8	7
22	7 7 40·5	11 19 92	3·00	53 54·5	35·9	24	8	8
23	7 11 52·4	13 13·78	3·81	48 55·4	43·5	18	6	9
24	7 12 57·0	15 6·83	3·65	44 39·7	45·9	18	6	10
28	7 27 31·8	22 7·32	7·15	39 10·3	83·2	14	5	11
Mar. 2	7 46 0·5	26 23·98	10·18	80 53 42·9	140·6	12	6	12
3	7 15 5·6	0 27 27·15	+ 12·75	81 3 23·8	—156·7	12	4	13

Corrected for refraction and parallax, and compared with the ephemeris circulated by the Superintendent of the *Nautical Almanac.*

Assumed *Mean* Places of Stars of Comparison, 1852·0.

Name.	R.A.	N.P.D.	Set.
	h m s	° ′ ″	
B.A.C. 8127 (Edin. Obs.)	23 12 48·00	85 25 29·7	1
Weisse, xxiii^{h}, 252	12 38·19	85 29 38·6	2
— — 983	23 48 3·90	82 36 2·0	3, 4
Anonymous, 9th mag.	0 1 38·20	81 12 45·0	5
Weisse, 0^{h}, 126	7 48·65	81 4 16·3	6, 7
— - 219	12 51·82	80 53 6·2	8
— - 280	16 19·99	53 54·4	9
— - 317	19 15·68	40 13·1	10
— - 340	20 41·40	80 37 9·9	11
— - 436	25 49·61	81 2 48·0	12
— - 514	0 30 27·76	80 59 5·9	13

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Encke's comet was first seen at Durham on January 12, and again on January 16, but high winds on both nights prevented more than a rough estimation of its position. On the 17th it was a little brighter, but still very faint, and the measures were in consequence taken with the ring-micrometer. On and after February 8 the comet was considerably brighter, and exhibited a strong condensation of central light, which admitted of accurate observation by the wire-micrometer. On the earlier evenings the coma seemed to spread slightly towards the s. f. direction, but subsequently no elliptical form was perceived. The whole extent of the coma was below two minutes of arc in all cases.

Sets 3 and 4. W. xxiii, 983, is also B.A.C. 8315, but as the B.A.C. place depends on a single observation by Flamsteed, I have preferred Bessel's. The star does not occur in any other catalogue in our collection.

Set 5. Wind troublesome. The star depends on equatorial comparisons only.

— 6. High wind, and a brilliant aurora. The hearing-tube used. The star's right ascension by catalogue has been increased 1^s, after comparison with two neighbours.

— 10. Attention distracted by the cathedral bells.

— 11. High wind and cloudy. The hearing-tube used.

— 12. Right ascension measures not good: the star was inconveniently situated.

— 13. Favourable. The comet was seen once after this, for ten minutes only, on March 9, but no observation could be procured from the want of a visible star within reach.

HAVERHILL. (Mr. W. W. Boreham.)

1852.	Green. M.T. h m s	R.A. h m s	N.P.D. ° ′ ″	No. of Obs.	Star.
Feb. 10	6 44 45	23 48 30·15	82 25 10·6	4	*a*
11	6 50 14	50 21·82	16 17·9	6	*a*
12	6 54 34	52 11·08	82 7 59·4	6	*b*
13	6 43 29	23 54 2·86	81 59 50·1	5	*b*
18	7 27 38	0 3 37·55	19 27·0	3	*c*
20	7 2 55	7 28·33	81 5 46·9	3	*c*
22	6 57 43	11 19·12	80 54 0·4	6	*d*
27	6 58 6	20 27·46	38 22·4	3	*e*
28	6 38 27	22 4·66		3	*e*
	6 41 6		39 10·9	2	*e*
March 2	6 51 26	26 21·01	80 53 29·9	6	*f*
4	6 52 16	28 19·43	81 16 19·0	4	*g*
5	6 56 6	28 56·08	33 46·6	3	*g*
6	6 53 50	29 13·03	81 55 1·2	4	*g*
7	6 47 38	0 29 9·42	82 23 8·8	5	*h*

Assumed *Mean* places of Stars of Comparison, 1852·0.

	Name.	R.A. h m s	N.P.D. ° ′ ″
a =	B.A.C. 8315	23 48 3·82	82 35 57·1
b =	— 8353	23 54 49·50	81 52 1·2
c =	Weisse, 0^h, 69	0 4 12·17	81 40 57·3
d =	— - 151	0 9 8·93	80 34 41·9
e =	— - 340	0 20 41·37	80 37 9·7
f =	B.A.C. 137	0 26 30·84	80 30 44·0
g =	— 177	0 33 33·65	81 27 9·5
h =	Rümker, *Ast. Nach.* No. 795	0 32 3·22	82 41 25·1

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The observations are corrected for refraction, and for parallax by Lieut. Stratford's ephemeris.

The first five or six observations were all taken under unfavourable atmospheric circumstances.

March 2 was pretty good. Probable error E = R.A. $\pm 0^{s}{\cdot}034$; $\Delta \pm 0''{\cdot}85$, The last observation is somewhat doubtful.

HAMBURG. (M. C. Rümker.)*

1852.	Hamburg M.T.	App. R.A.	App. Decl.	Comp.
	h m s	h m s	° ′ ″	
Jan. 20	6 43 6·0	348 47 4·0	+4 50 2·0	14
22	6 43 53·2	349 28 17·6	5 3 20·0	8
26	6 41 32·3	350 54 9·6	5 32 20·6	21
27	6 37 1·8	351 16 41·1	+5 39 23·4	3

Not corrected for parallax.

Mean Places of Stars for Jan. 1, 1836, *in the Orbit of the Comet of Encke, extracted from the part of M. C. Rümker's Catalogue now about to be published.*

Mean R.A.	Prec.	Mean Decl.	Prec.	No. of Obs.	Mag.
h m s	s	° ′ ″	″		
23 2 53·960	+3·044	+4 6 58·38	+19·42	1	9
4 56·227	·044	50 54·90	·47	1	9
8 47·049	·044	33 0·38	·54	1	9
10 25·289	·045	33 27·20	·57	1	
11 59·445	·046	29 14·40	·61	2	*b* Pisc.
13 42·457	·046	4 36 24·71	·63	3	8.9
14 39·520	·042	5 39 10·20	·65	1	
15 2·400	·048	4 20 34·00	·66	2	8
16 0·774	·045	5 8 48·90	·67	1	8
16 50·402	·051	4 1 18·67	·69	1	9
19 39·006	·045	5 28 44·23	·73	4	θ Pisc.
19 55·384	·047	10 24·57	·74	2	8
21 11·457	·047	12 2·71	·76	4	9
22 1·684	·047	5 31 22·30	·77	1	9
22 33·903	·044	6 16 24·10	·78	1	9.10
23 14·449	·046	5 50 44	·79	1	
23 52·556	·045	6 10 58·31	·79	2	7.8
25 19·297	·052	4 39 20·89	·81	1	
27 54·143	·049	5 57 16·66	·85	2	8
30 48·596	·052	17 37·78	·88	2	8
32 47·965	·053	21 24·6	·90	1	9.10
32 48·966	·053	5 21 15·54	·90	1	8
23 35 34·797	+3·052	+6 20 26·51	+19·93	3	Dup.

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* The MSS. of M. Rümker's contributions to this number of the *Notices* has been unfortunately mislaid between composition and revision.

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Mean R.A.	Prec.	Mean Decl.	Prec.	No. of Obs.	Mag.
h m s	s	° ′ ″	″		
23 36 26·941	+3·053	+6 16 54·55	+19·94	5	7.8
37 53·764	·054	6 16 13·28	·95	2	9
39 49·916	·053	7 20 8·11	·96	4	7
41 17·846	·053	42 57·11	·98	2	8
42 54·733	·055	42 59·76	·99	1	
44 19·579	·056	48 29·15	+19·99	4	6
45 15·287	·057	7 35 30·70	+20·00	1	8.9
45 41·626	·056	8 18 54·43	·00	2	8.9
46 0·281	·056	8 14			9
47 14·778	·058	7 18 42·92	·01	1	7
50 21·064	·060	8 20 1·39	·02	2	9
50 25·855	·059	8 38 19·55	·02	2	8.9
54 0·134	·065	5 25 17·63	·04	1	8.9
54 0·685	·063	8 2 37·10	·04	1	6
54 1·792	·062	9 52 3·83	·04	1	9
54 5·136	·063	7 28 54·31	·04	2	8
54 6·911	·063	34 27·31	·04	3	6
54 40·180	·064	21 34·44	·04	1	8
54 40·530	·064	7 20 59·6	·04	1	
56 10·863	·066	6 21 7·0	·04	1	
23 56 55·378	+3·066	+7 52 35·52	+20·04	2	8

Mean Places for 1850 from the new Series, now in print.

Mean R.A.	Prec.	Mean Decl.	Prec.	No. of Obs.	Mag.
h m s	s	° ′ ″	″		
0 6 1·415	+3·075	+6 6 19·27	+20·05	3	9
9 26·186	·078	7 4 17·15	·04	2	9
9 51·724	·078	24 25·47	·03	1	
10 10·051	·078	1 58·11	·04	1	8
12 11·142	·080	42 0·89	·03	2	
12 52·914	·080	7 21 24·43	·02	1	
14 16·850	·080	6 10 46·68	·02	1	9
17 8·816	·083	6 58 28·88	·00	1	9
17 24·269	·083	7 2 4·98	+20·00	1	
17 35·253	·085	8 14 10·50	+19·99	1	9
17 58·129	·083	6 51 41·55	·99	1	7
18 4·389	·087	9 35 26·57	·99	1	7
18 15·555	·087	8 31 51·03	·99	1	
19 8·105	·085	8 29 14·36	·98	1	8
19 10·356	·085	7 43 56·21	·98	2	8.9
19 50·412	·083	6 24 13·11	·98	2	9
20 34·848	·090	9 22 6·76	·97	1	7
21 7·163	·087	7 33 17·31	·97	2	8
0 21 46·706	+3·092	+9 33 23·97	+19·97	1	8

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Mean R.A.	Prec.	Mean Decl.	Prec.	No. of Obs.	Mag.
h m s	s	° ′ ″	″		
0 22 9·764	+3·098	+8 8 37·01	+19·96	2	
23 19·517	·090	28 37·97	·95	1	7
23 52·674	·091	8 19 58·48	·94	1	7
24 39·575	·086	6 7 34·71	·94	2	6.7
26 1·086	·089	6 51 42·77	·93	1	9
26 24·679	·096	9 28 41·72	·92	4	7
27 9·240	·097	9 28 45·51	·91	1	
27 22·702	·090	6 53 45·28	·90	1	
28 18·684	·089	19 45·80	·90	1	
31 57·036	·094	6 17 55·14	·86	1	8
33 45·261	·101	8 48 1·51	·84	1	
36 34·216	·097	6 57 2·00	·80	1	8.9
36 58·465	·096	6 47 49·11	·79	2	9
39 26·964	·100	7 19 31·94	·76	1	
40 19·592	·109	9 23 52·65	·74	2	9
40 29·444	·110	9 26 26·35	·74	2	9
40 54·261	·099	6 46 4·00	·74	2	6
42 43·090	·098	6 17 27·08	·71	7	9
42 45·141	·113	9 35 37·61	·71	1	9
44 18·391	·115	9 47 9·19	·68	1	
44 44·958	·107	7 50 56·28	·67	1	8.9
44 55·735	·102	6 53 6·92	·67	1	9
44 59·256	·112	8 59 20·80	·67	1	
45 52·336	·115	9 28 38·69	·65	1	
46 3·234	·101	6 27 37·86	·65	1	9
47 33·217	·100	6 2 19·90	·63	1	8.9
48 44·910	·113	8 24 57·59	·60	1	7.8
50 10·838	·105	6 47 56·51	·57	1	8.9
50 32·898	·102	6 1 58·18	·57	1	7.8
52 3·356	·101	5 40 22·90	·54	1	7
54 19·202	·110	7 7 47·80	·49	1	
55 9·564	·110	7 4 53·48	·48	4	5
56 0·134	·105	5 57 29·14	·46	1	8
56 48·706	·121	8 46 50·39	·45	1	8
0 58 52·917	+3·119	+8 3 45·03	+19·40	1	

SOLAR ECLIPSE *of July* 28, 1851.

Liverpool Observatory. Mr. Hartnup.

Latitude 53° 24′ 47″·7 N. Longitude 0ʰ 12ᵐ 0ˢ·05 W.

"The observations were made with the 8½-inch equatoreally-mounted achromatic refractor. The first impressions which I saw on the sun's disc, were made simultaneously by two lunar moun-